

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,054,256 B2
APPLICATION NO. : 10/082928
DATED : May 30, 2006
INVENTOR(S) : Hunter et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete Title page illustrating figures, and substitute therefor, new Title page illustrating figures. (attached)

Delete drawing sheets 1-4, and substitute therefor drawing sheets 1-4. (attached)

Signed and Sealed this

Eleventh Day of December, 2007



JON W. DUDAS
Director of the United States Patent and Trademark Office

(12) United States Patent
Hunter et al.

(10) Patent No.: US 7,054,256 B2
(45) Date of Patent: May 30, 2006

(54) HIGH CAPACITY DIGITAL DATA STORAGE BY TRANSMISSION OF RADIANT ENERGY THROUGH ARRAYS OF SMALL DIAMETER HOLES

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(73) Assignee: Ochoa Optics LLC, Las Vegas, NV (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 721 days.

(21) Appl. No.: 10/082,928

(22) Filed: Oct. 19, 2001

(65) Prior Publication Data

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Related U.S. Application Data

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(51) Int. Cl.

GIIB 7/00 (2006.01)

(52) U.S. Cl. 369/118; 369/275.4; 369/283

(58) Field of Classification Search 369/275.4,

369/124.12, 288, 289, 282

See application file for complete search history.

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Primary Examiner—Hoa T. Nguyen

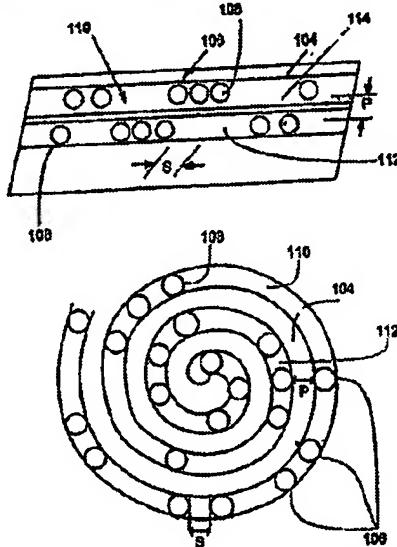
Assistant Examiner—Van T. Pham

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(57) ABSTRACT

A storage media for storage of data thereon is provided. The storage media including: a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern. Also provided are a method for fabricating the storage media as well as an apparatus and method for reading the data stored on the storage media.

3 Claims, 4 Drawing Sheets



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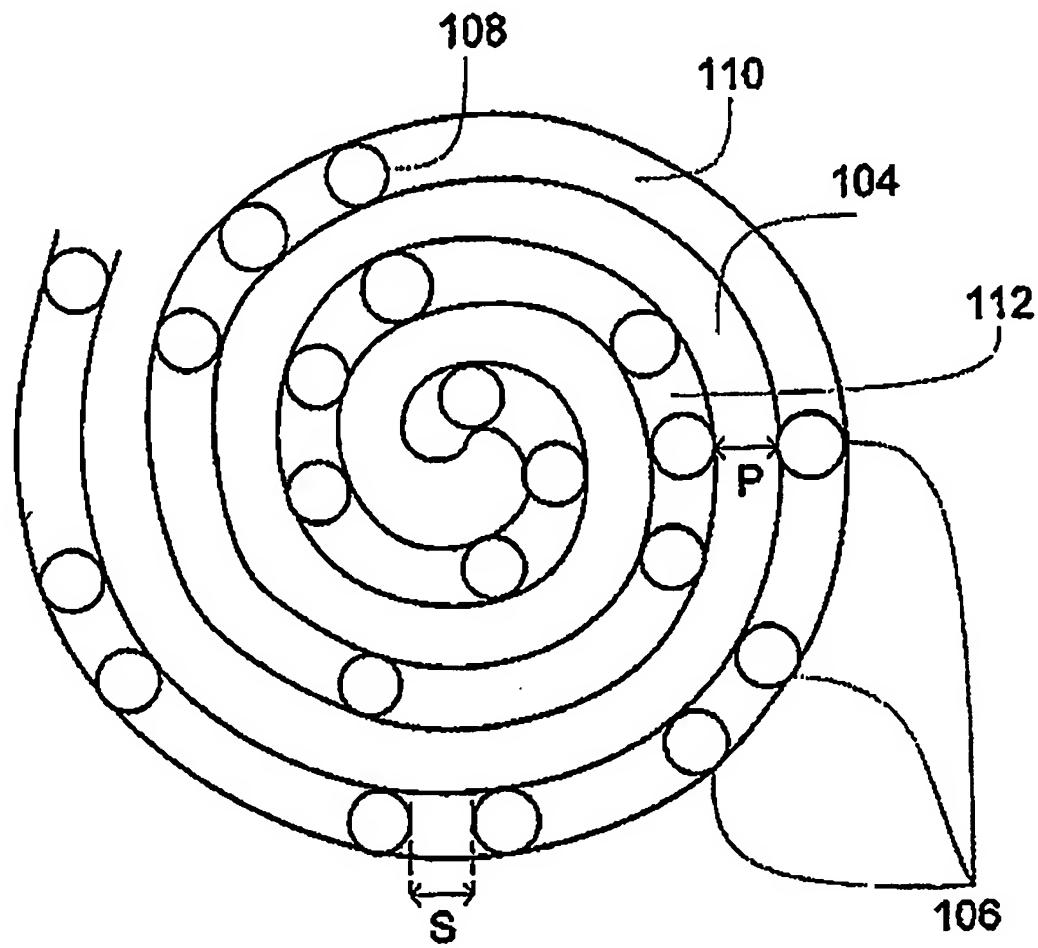


Figure 2B

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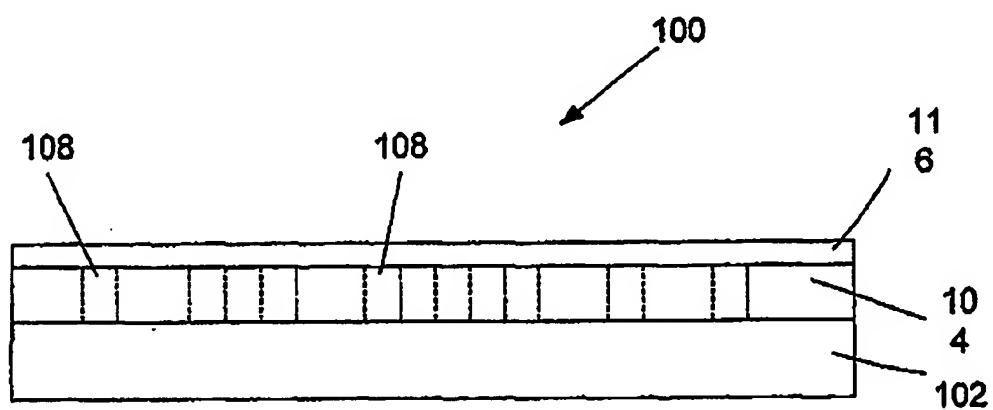


Figure 1

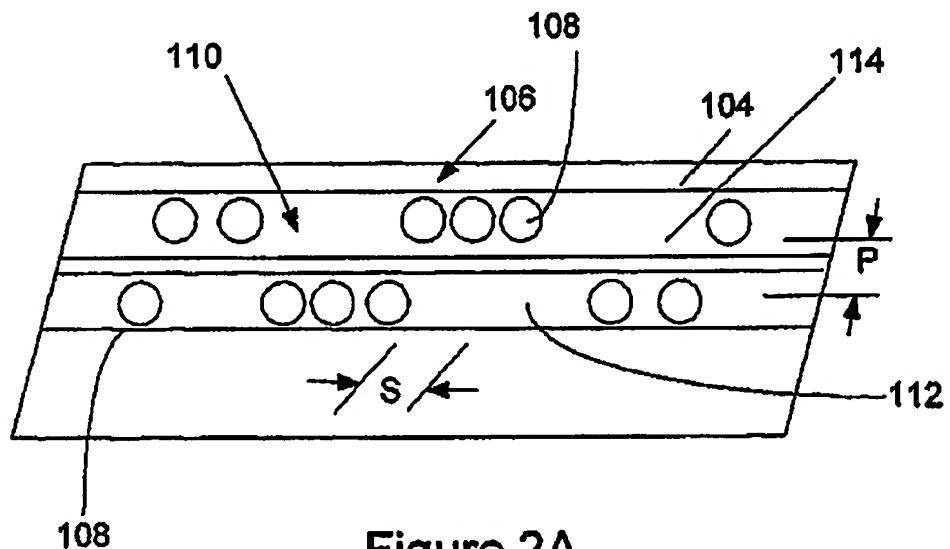


Figure 2A

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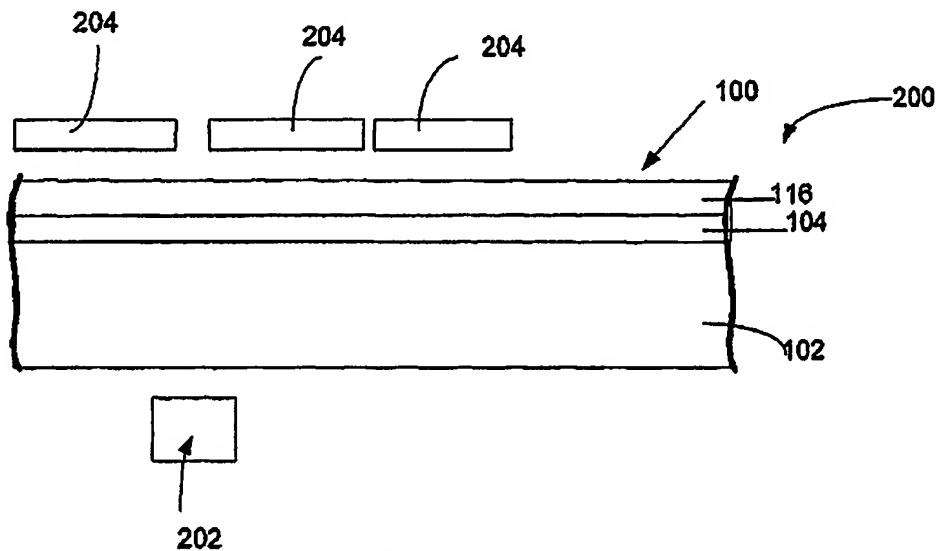


Figure 3

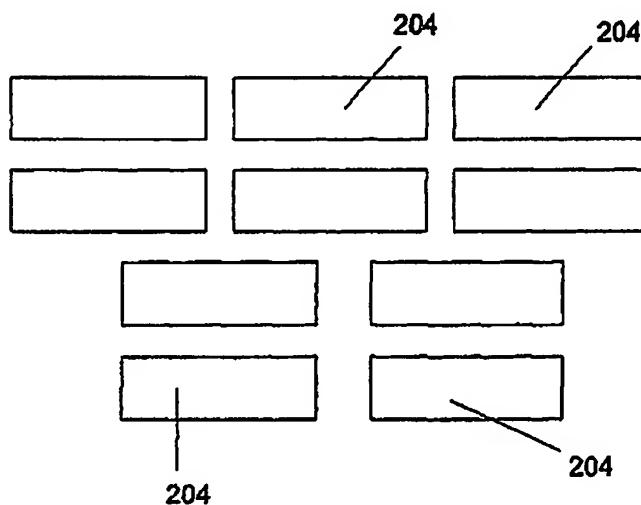


Figure 4

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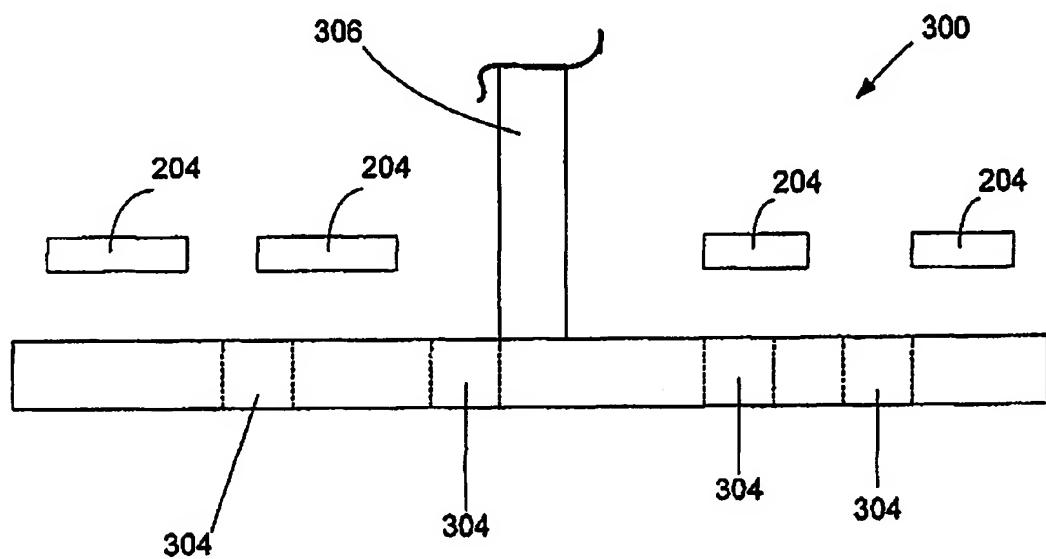


Figure 5